t game green south

Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D

Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE



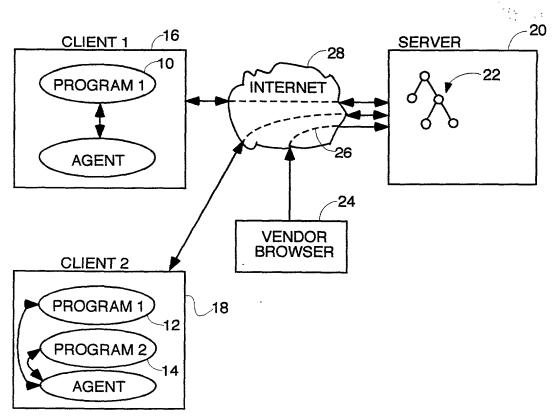


FIG. 1

The street

Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D

Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE

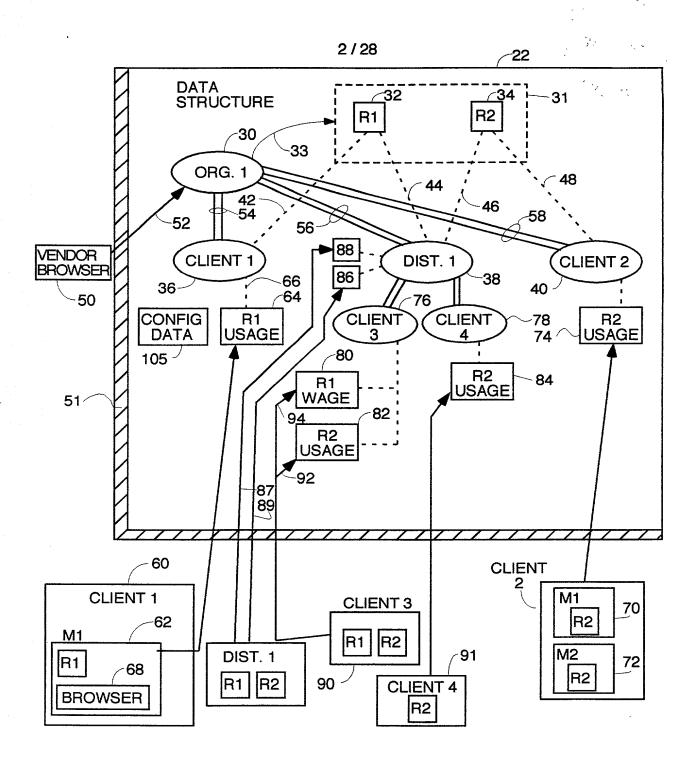
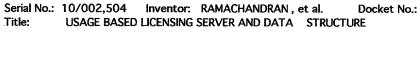


FIG. 2

THE STATE OF Fig Docket No.: COM-002.1D



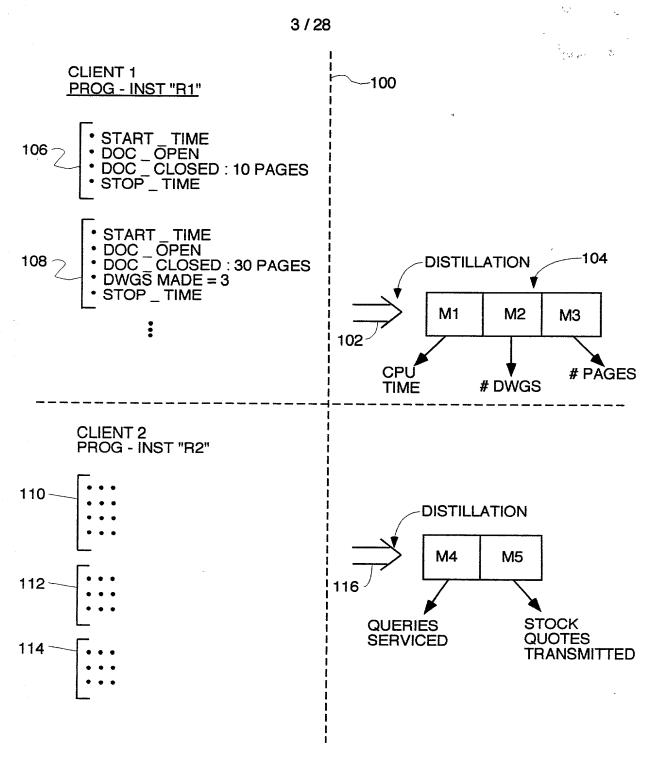
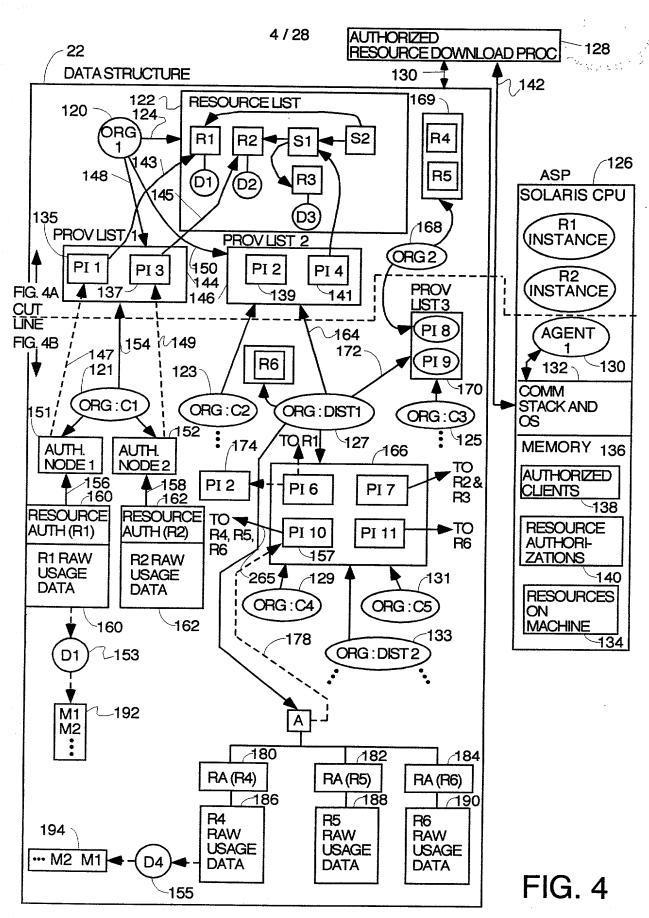


FIG. 3



#==

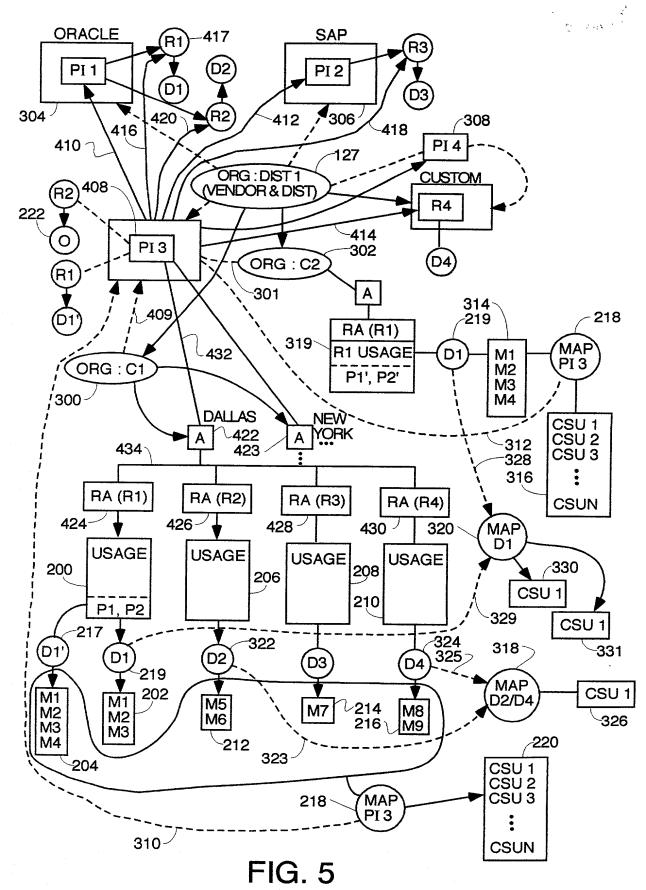
then spirit spirit in the spirit spir

The man

Hun arm

u.i.g

£1



Docket No.: COM-002.1D

22

il il TU.

LM

Harry Harry

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

6/28

## OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

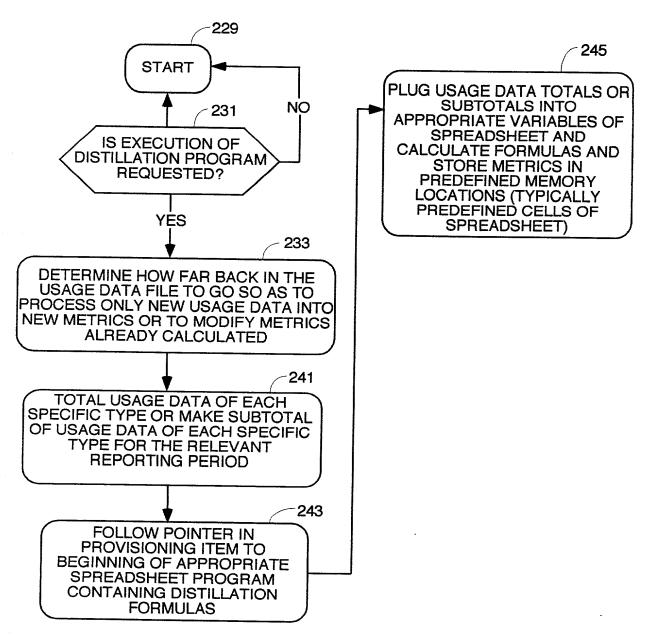


FIG. 6A

Z=1 TŲ

1

M

ĝ.j

PH.

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

7/28

OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

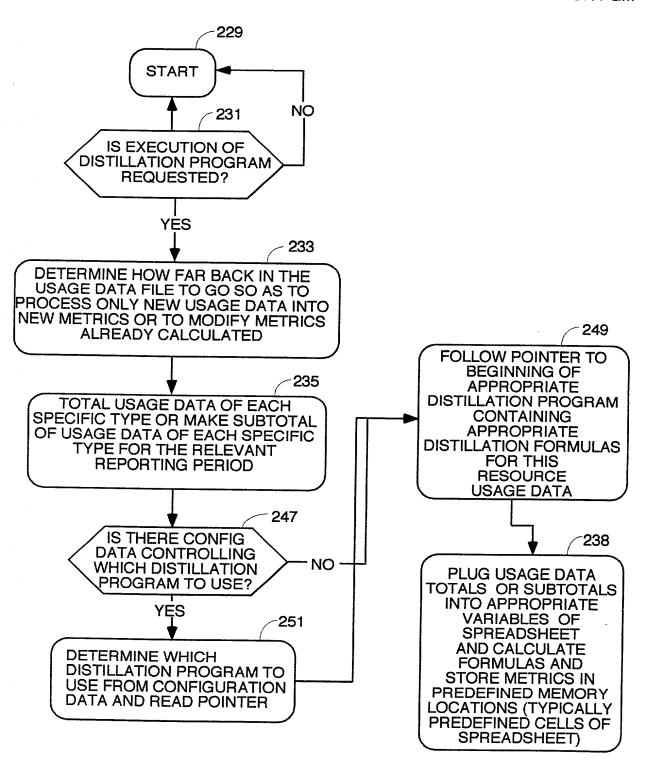


FIG. 6B

H

LF.

[]

TH

Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D

Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE

8/28

PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN

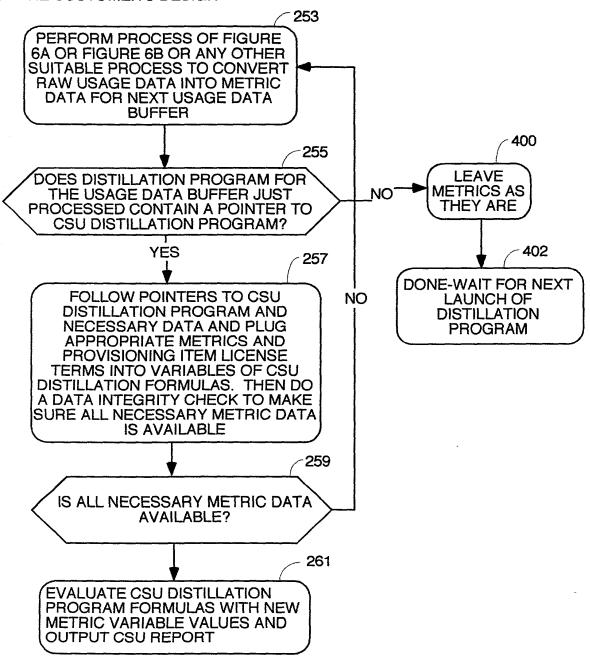


FIG. 7

Hann made

THE STATE OF THE PARTY OF THE P

Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE

9/28

OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM

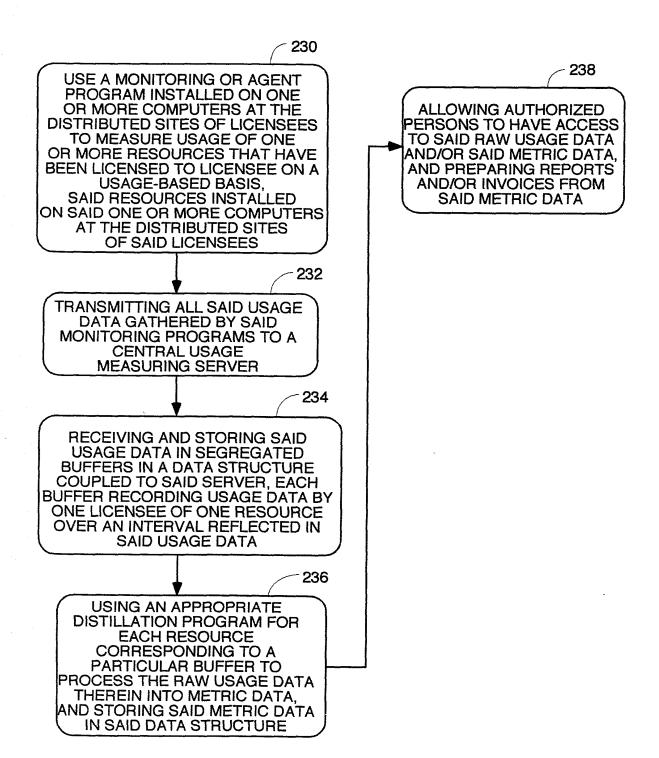


FIG. 8

腔

W 

---

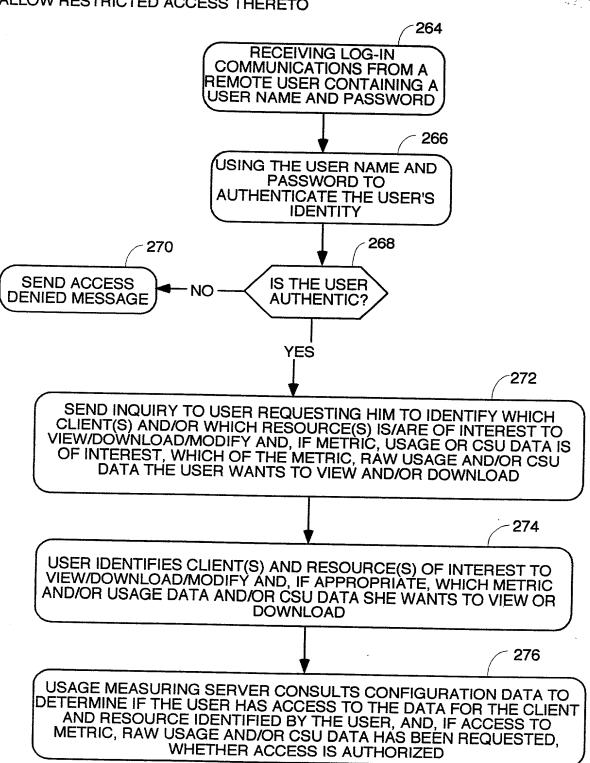
FL

Docket No.: COM-002.1D

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

10/28

PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND ALLOW RESTRICTED ACCESS THERETO



TO FIG. 9B

FIG. 9A

IJ

11

W

Fil

L. [] Fi. USAGE BASED LICENSING SERVER AND DATA STRUCTURE

11/28

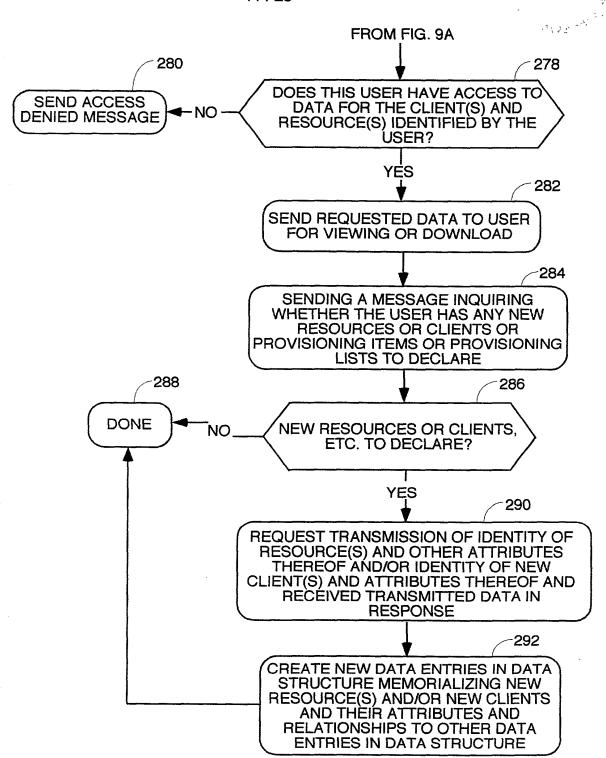
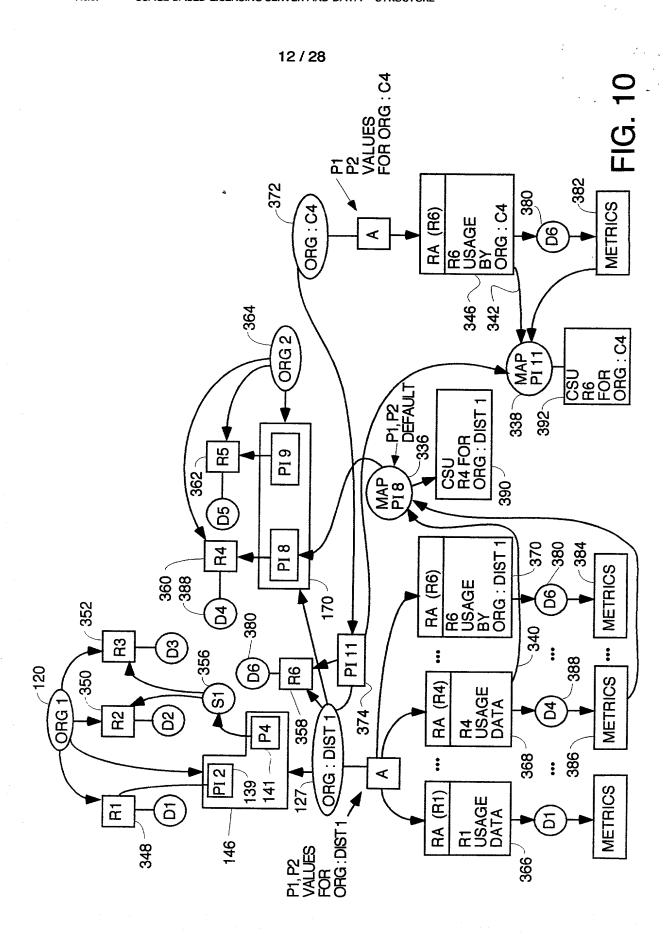


FIG. 9B



H

43

fų

151

IJ

M

13 / 28

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

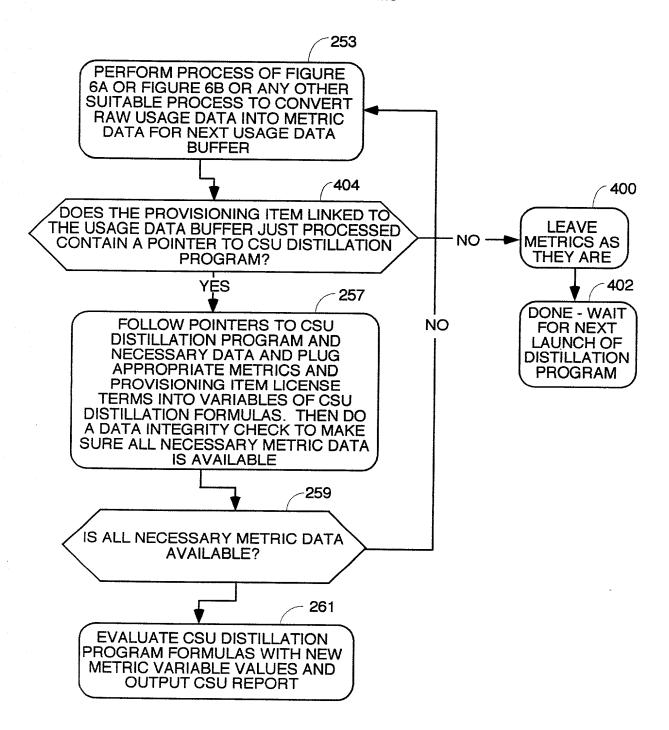


FIG. 11

g # 5

fl.

LF

r p

Ţij

TI.

M

Ü

Inventor: RAMACHANDRAN, et al.

Docket No.: COM-002.1D

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

14/28

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

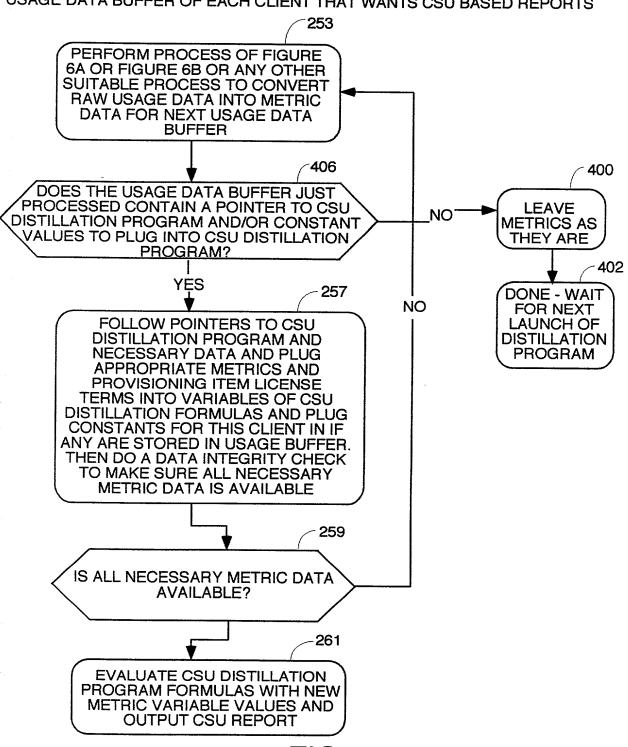


FIG. 12

45

FU

151

£13 FL USAGE BASED LICENSING SERVER AND DATA STRUCTURE

15/28

PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

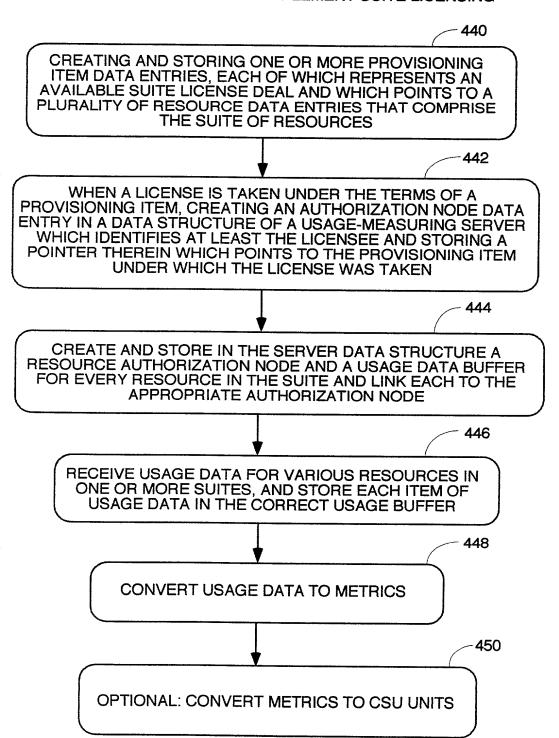


FIG. 13

## ###

Z.

Li

M LA

125.14

Serial No.: 10/002,504 USAGE BASED LICENSING SERVER AND DATA STRUCTURE

16/28

ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE

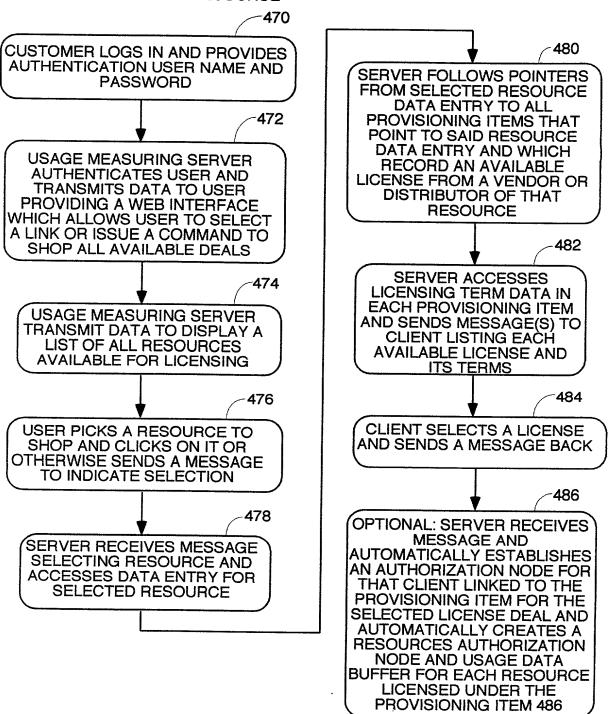


FIG. 14

The stand should show that the stands of the

Hand thur,

PIJ

Docket No.: COM-002.1D

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

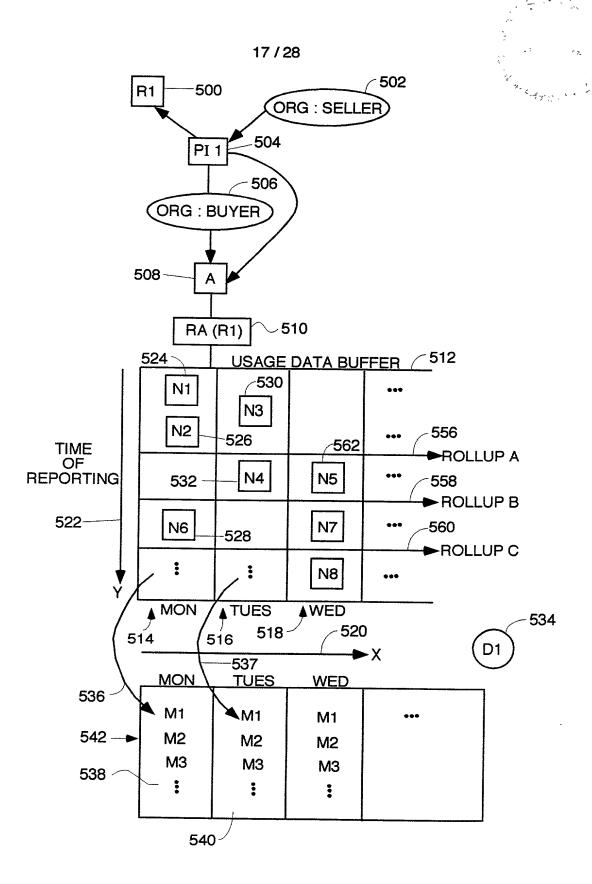


FIG. 15

M 47

M

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

18/28

PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS. AND GENERATE METRICS THEREFROM

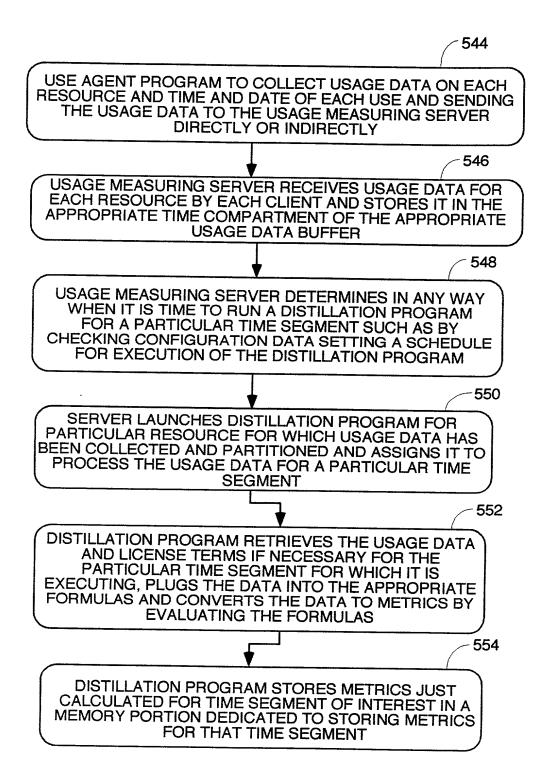


FIG. 16

19/28

**ROLLUP A ID 39** 

	MON	TUES	WED	•••
M1= CPU	10	1	0	<b></b> -
M2= DOCS	500	50	0	Ţ
M3= #PGS	759	71	0	Ī
	•	•	:	

MON	TUES	WED
0	3	2
0	70	40
0	139	96

FIG. 17

FIG. 18

## PREFERRED ROLLUP B ID 50

MON	TUES WED		
10	4	2	
500	120	40	
759	210	96	

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	4	2
0	120	40
0	210	96

FIG. 19

FIG. 20

20 / 28 574~ 608 578 ORG: VENDOR 2 ORG: VENDOR 1 R<sub>1</sub> R2 572 580 576 PI 2 PI<sub>1</sub> 582 D<sub>1</sub> 570 ORG: DISTR. C2 -586 584 PI3 C1 571 (ORG: CUST 2 ORG : CUST 1 591 588 589 <sup>∨</sup>592 Α 590 595 593 596 **-600** 598~ 594 RA (R1) RA (R1) **IRA** (R2) RA (R2) 599 597 C2/R1 USE MON TUES WED C1/R1 USE **N5** N7 MON TUES WED 604 **←** 602 N<sub>1</sub> RECEIPT N<sub>12</sub> 606 **N23** N11 **ROLLUP A** 622 N45 **ROLLUP B** N42\ N53 · TIME OF USE TIME OF USE 610 614 MON TUES **ROLLUP A** MON TUES C2/R1 M1 ID 6 M1 M1 \$ ROLLUP A M1 -612 **METRICS** C1/R1 ID<sub>5</sub> **M2** 616 **M2** METRICS M2 M2 **S1** 618 MON MON TUES WED **TUES** MON TUES WED **ROLLUP A** 0 M1 0 M1 M1 D1/R1 *≯* 0 620 **M1** M1 **USE METRICS M2 M2** M2 0 0 **M2** M2 0 ROLLUP B **S1** ROLLUP B C1/R1 C2/R1 **USE METRICS** 624 **USE METRICS** 626 629 -MON TUES WED CSU 0 M1 M1 **INGOTS** FIG. 21 0 M2 **M2** 628

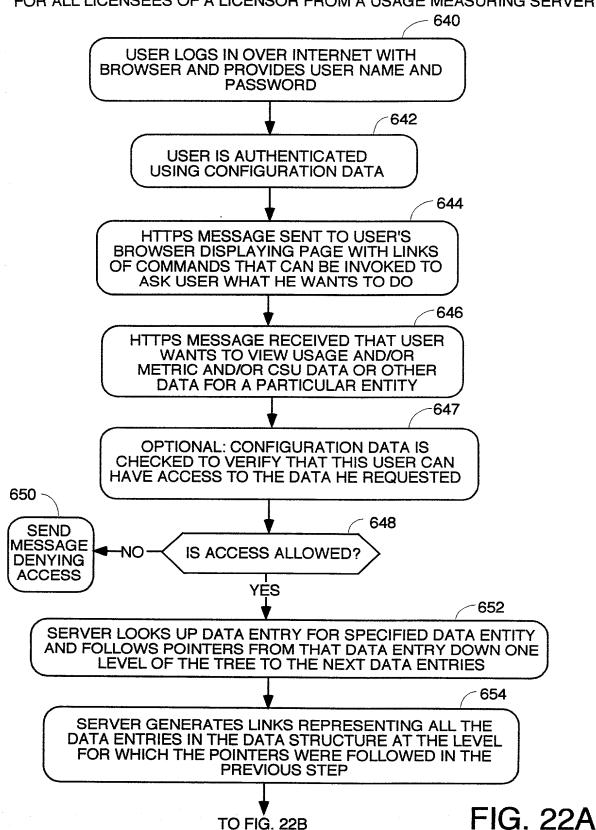
26.

Docket No.: COM-002.1D

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

21 / 28

PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATA FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER



Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D

Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE

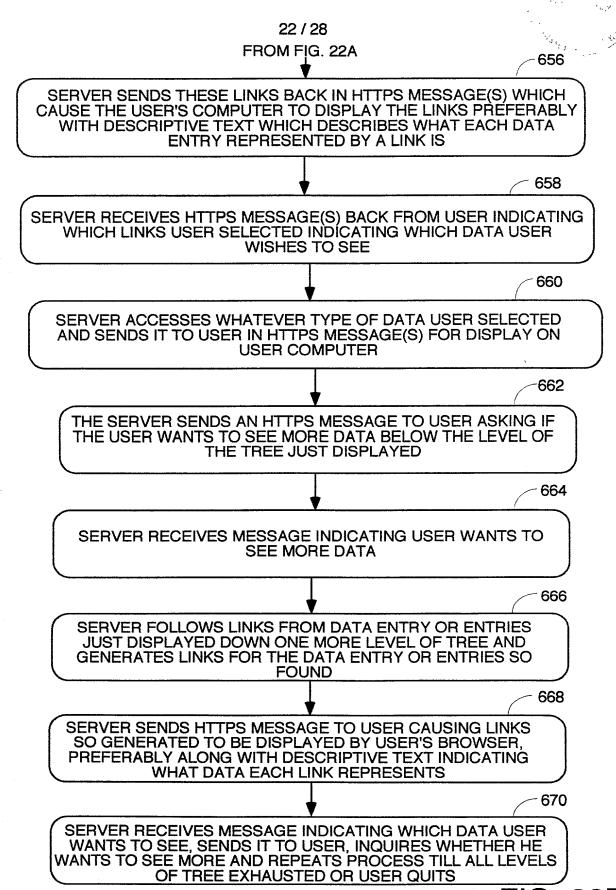
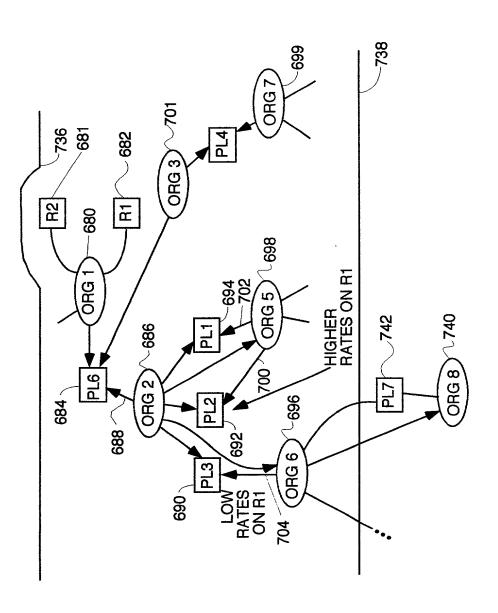


FIG. 22B



SECURITY BARRIERS FIG. 23

Pi,

FER

Docket No.: COM-002.1D

USAGE BASED LICENSING SERVER AND DATA STRUCTURE

24 / 28

A PROCESS TO IMPLEMENT SECURITY BARRIERS TO PREVENT USERS FROM VIEWING DATA IN A USAGE MEASURING SERVER DATA STRUCTURE THAT THE USER NOT AUTHORIZED TO VIEW

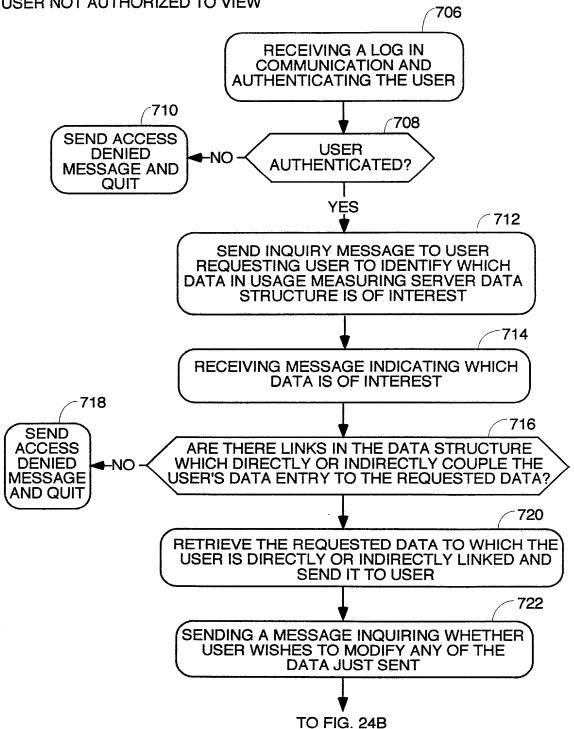


FIG. 24A

TI.

The state of the s

Fi.

LA M Docket No.: COM-002.1D

25 / 28

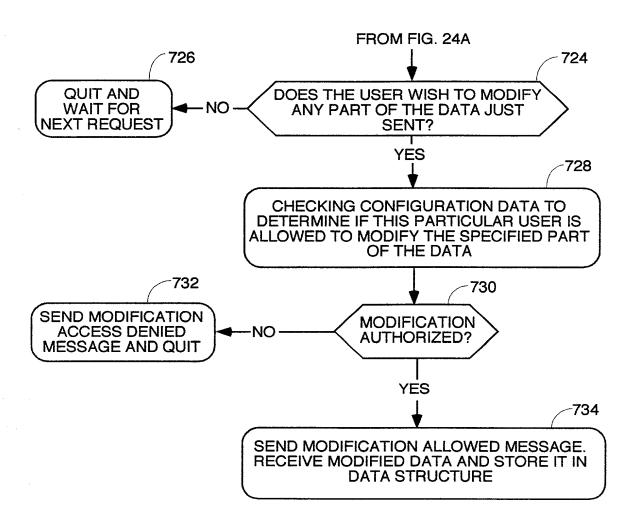
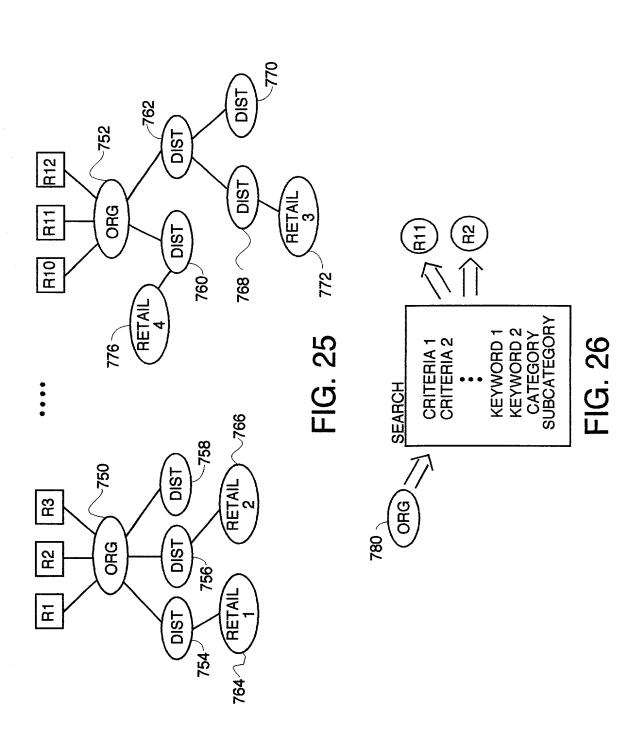


FIG. 24B





Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D

Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE

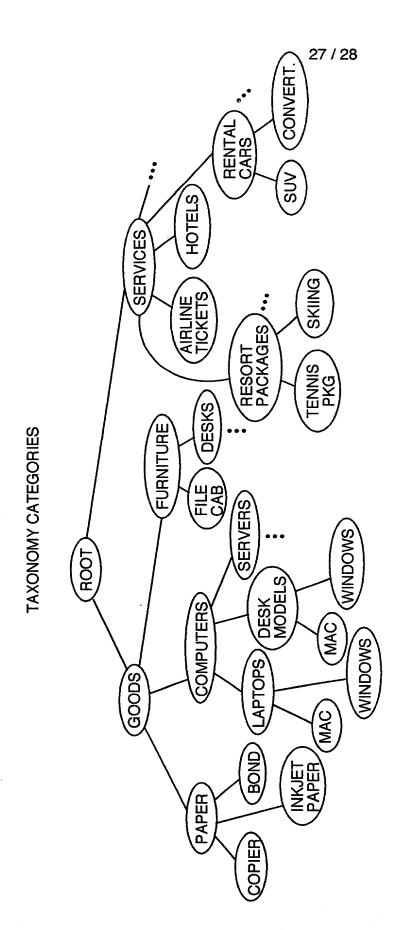


FIG. 27

u

than and

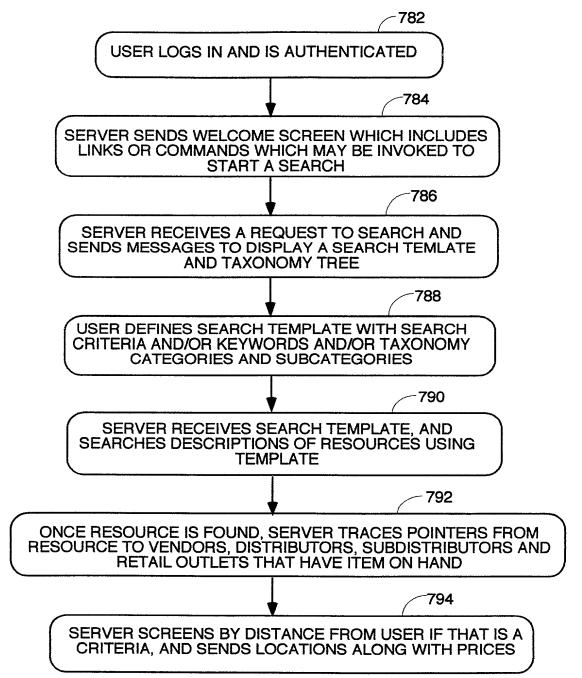
Hunge Hann

Serial No.: 10/002,504 inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D

Title: USAGE BASED LICENSING SERVER AND DATA STRUCTURE

28 / 28

SERVER PROCESSINGTO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA



**FIG.28**